

YAVARI

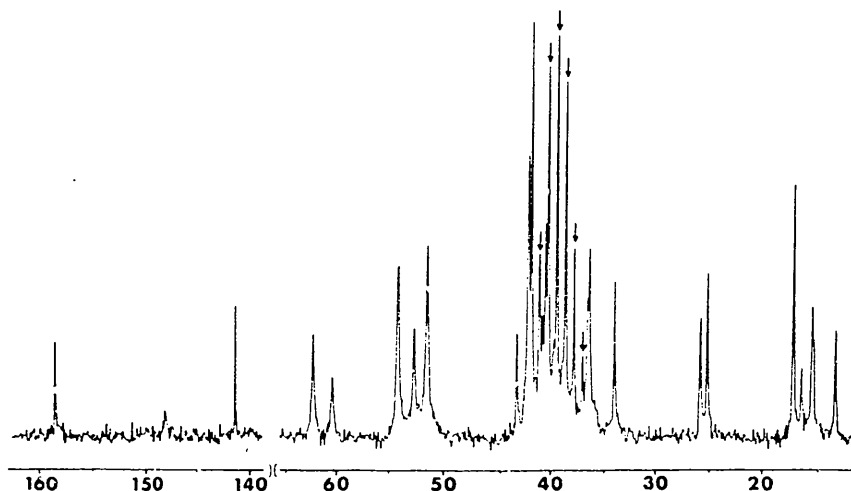
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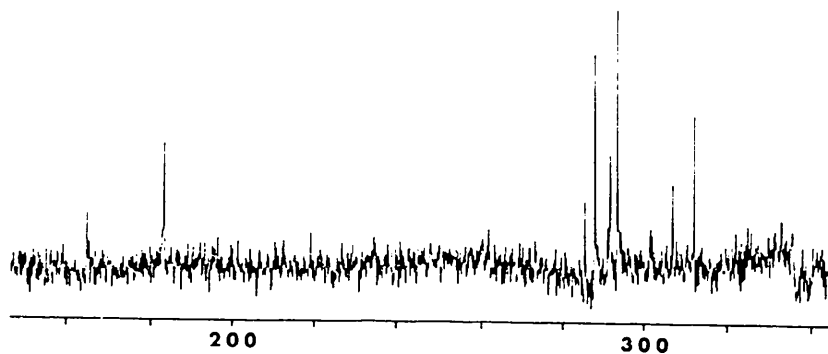
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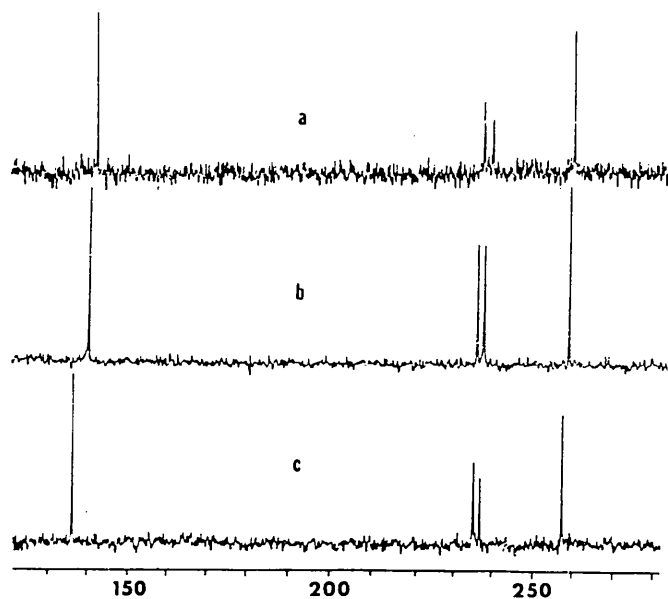
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Natural-abundance, 25.2-MHz  $^{13}\text{C}$  NMR spectrum of 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride, 10, in dimethyl sulfoxide- $\text{d}_6$  at room temperature. The peaks marked with arrows arise from the solvent.



Natural-abundance  $^{15}\text{N}$  NMR spectrum (ppm upfield from  $\text{H}^{15}\text{NO}_3$ ) of a saturated solution of 10 in dimethyl sulfoxide at room temperature. Protons are noise-decoupled by a gating procedure to quench the NOE; 12500 transients were accumulated in 23 hours.



Natural-abundance  $^{15}\text{N}$  NMR spectra (ppm upfield from  $\text{H}^{15}\text{NO}_3$ ) of (a)  $\text{N}, \text{N}'$ -dicyclohexylcarbodiimide in methyl iodide after reflux for 50 h, 1050 transients; (b)  $\text{N}, \text{N}'$ -dicyclohexylcarbodiimide in dimethyl sulfate (50% v:v) warmed at  $70^\circ$  for a few minutes, 800 transients; (c)  $\text{N}, \text{N}'$ -diisopropylcarbodiimide in dimethyl sulfate (50% v:v) warmed at  $70^\circ$  for a few minutes, 720 transients.